## INTERNATIONAL SEARCH REPORT

International application No.

A.	CLA	SSIFICATION OF SUBJECT MATTER		PCI/OS	04/1959(	)		
PC(/) : B01J 19/08								
US CL : 42/186.04,186.21,224; 204/164								
According to International Patent Classification (IPC) or to both national classification at TDC								
- TEEDE SEARCHED								
Minii	Minimum documentation searched (classification system followed by classification symbols)							
1	U.S.: 42/186.04,186.21,224; 204/164							
Docu	Documentation searched other than military							
,	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electi	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)							
WES	WEST WEST used)							
C.	C DOCUMENTS CONGRESS							
<del></del>	gory *	JMENTS CONSIDERED TO BE RELEVANT						
	X	Citation of document, with indication, where	appropriate	, of the relevant passag	es	Relevant to claim No.		
1	_	05 4,001,435 (11LKO) 31 January 1989 see abor	ract; Figs.	1, 2 and 4; and section	of	1,6,12,18,19,24,28 and		
	Y	Description of the Prior Art.				29		
		col. 5, lines 11-13 and lines 17-25; and col. 6, line	n 54 57					
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	Further o	documents are listed in the continuation of Box C.		·				
				See patent family anne				
		cial categories of cited documents:	"T"	later document published aft	er the interi	national filing date or priority		
"A" do	ocument d	efining the general state of the art which is not considered to be		principle or theory underlying	the applica	tion but cited to understand the		
1	· particula	1 Icicyanice	432n					
"B" ea	arlier appli	ication or patent published on or after the international filing date	"X"	document of particular relevensidered novel or cannot be	ance; the cl	almed invention cannot be ed to involve an inventive step		
"L" do	ocument w	high may throw doubts on priority claim(s) or which is also		when the document is taken	alone	d to myorve an inventive step		
C3	STADITZII UK	publication date of another citation or other special reason (as	"Y"	document of particular relev	ance: the -t	simed invention t-		
] **	pecifica)			considered to involve an inv	entive sten v	when the document is		
"O" do	ocument re	eferring to an oral disclosure, use, exhibition or other means		combined with one or more being obvious to a person sk	Other such d	focuments such combination		
		ublished prior to the international filing date but later than the	# O. w					
pr	riority date	claimed	<b>"&amp;"</b>	document member of the sar	ne patent fa	mily		
Date of	Date of the actual completion of the international search			Date of mailing of the international				
1				Date of mailing of the intermitional search report				
Name a	20 February 2005 (20.02.2005)							
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US			Authorized officer					
Commissioner for Patents			Kishor Mayekar					
P.O. Box 1450			1. Webselson					
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230			Telephone No. (571) 272 300					
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· oim FC	AI AOMIZ	210 (second sheet) (January 2004)				·J		

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/19590

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:						
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:						
2. Claims Nos.:  because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:						
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).						
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)						
This International Searching Authority found multiple inventions in this international application, as follows:						
<ol> <li>As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.</li> <li>As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.</li> <li>As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:</li> </ol>						
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:						
Remark on Protest The additional search fees were accompanied by the applicant's protest.						
No protest accompanied the payment of additional search fees.						